ECS Configuration (Page 1 of 3 Page(s)							
1. Originator	2. Log Date:	3. CCR#	;	4. Rev		1	6. Am #:	7. Dept.	
Gary Lake	3-29-00	00-03	45	_	301-614-5751		N126-6	Sys Eng	
8. CCR Title: DUE to collect DPR Statistics Data									
9. Originates Simple Water									
Originator Signature/Date			10. (Class	11. Type:	12.	Need Date	e: April 7, 2000	
			コ	Ľ	CCR				
13. Office Manager Signature/Date				ategory	of Change:	15. Priority: (If "Emergency"			
Jan 28-00				Initial ECS Baseline Doc			fill in Block 28).		
16. Documentation/Drawings Impacted: 17. Schedule 18. Cl(s) Affected: PLANG								<u> </u>	
Planning and Data Processing Database Design 311-CD-503- 001 Release SA									
19. Release Affected by this Change: 20. Date due				to Customer: 21. Estimated Cost:					
				None - Under 100K					
22. Source Reference:									
22 Broklam /									
23. Problem: (use additional Sheets if necessary) We do not store the information required to enable trend analysis of DPR Completions.									
The state of the s									
24. Proposed Solution: (use additional sheets if necessary)									
One new table will be added to the pdps database to store data on the total number of DPRs completed during one hour time									
periods, and the totals for the corresponding CPU usage parameters. The new table is expected to receive about 3MB of data per year. A stored procedure will be written in Sybase's Transact SQL to select sums of values from the PIDprCompletion table in the									
peops database from one from prior to the present to the present. The results of this query will be stored in a new page database.									
table with corresponding sample period information. This operation will be repeated once every hour by cron. 25. Alternate Solution: (use additional sheets if necessary)									
A similar solution can be imple	emented to that which is r	proposed how	vever, in:	stead of	storing the data in	n a tab	ble in the po	dos database.	
I are agreemal be stocked to 9 Us	ewiy created database. T	he advantage	to this a	innraach	is in the complet	a can	aration of t	on naucasta	
from existing code. The disact 26. Consequences if Chang	e(s) are not approved:	luse addition	iai shee	is if nec	やななみひい)				
If will not be possible to create a user interface that displays DPR data to the production planners who would use this information in scheduling.									
27. Justification for Emergency (If Block 15 is "Emergency"):									
DUE into only. Nopercorred ECS Impart									
	0			•	,	-	P	CAN	
28. Site(s) Affected: DEDF DEVC. DVATO DEDC SEC DLARO SIDC SMC DAK DIPL									
29. Board Comments:				30. V	ork Assigned T	o: 3	31. CCR C	losed Date:	
32. EDF/SCDV CCB Chair (S	ign/Bata):			<u> </u>	·				
TEL POLITOGO F COD CHAIR (S	nammate): Dis			App/Co	m. Disapproved	With	idraw Fwd	/ESDIS ERB	
33. M&O CCB Chair (Sign/Da	240).		d/ECS			 .			
ov. mao coa chair (sign/b)	O 1 $^{\circ}$	position: Ap		App/Col	n. Disapproved	With	ndraw Fwd	ESDIS ERB	
WID	25 Aprice	Fw	d/ECS						
34. ECS CCB Chair (Sign/Da	te): / Disp	osition: App	roved	App/Con	a. Disapproved	With	ndraw Fwc	/ESDIS ERB	
		Fwe	VESDIS						
CM01JA00							DE/OCCIVA		

ORIGINAL

ECS/EDF/SCDV/M&O

ADDITIONAL SHEET

CCR #: Rev: Originator: Gary Lake

Telephone: 301-614-5751 Office: N126-6

Title of Change: DUE to collect DPR Statistics Data

Proposed solution (cont.) The procedure to be executed will be contained in a file that is listed as a new entry in the crontab with the appropriate specifications for the execution times.

The following SQL code may be used to create the required table in the pdps database, and to store data on a periodic basis. The 3MB per year sizing estimate is based on a sampling rate of 1 execution per hour of the stored procedure that contains the record insert commands. If the number of PGE's doubles, then the number of MB per year will double.

Component Description

```
PIDprMetrics
create table PIDprMetrics (pgeName varchar(17) not null,
HourlySumPgeCpuTime float null.
HourlySumSystemCpuTime float null.
 HourlySumPgeElapsedTime float null,
  dprldCount int null,
  SampleStartTime datetime not null.
   SampleEndTime datetime not null,
primary key (SampleStartTime, pgeName))
```

GetDPRStatistics

```
# BE SURE THAT EXEC PRIVILEGES HAVE BEEN PROPERLY
# GRANTED TO $DBUSERNAME FOR PROCEDURE GetLatestDPRStatistics
DBUSERNAME=<user name>
DBPASSWD= <password>
SYBASE= <file path>/sybase
DSQUERY= g0pls01 srvr
$SYBASE/bin/isql -U$DBUSERNAME -P$DBPASSWD
go
exec GetLatestDPRStatistics
ao
EOF
3.4.3 GetLatestDPRStatistics
Create Proc GetLatestDPRStatistics
insert PIDprMetrics
select "DPREP",sum(pgeCpuTime),sum(systemCpuTime),
sum(pgeElapsedTime),count(distinct dprid), dateadd(hh, -1,getdate()), getdate()
 from PiDprCompletion
 where dorld like '%Att%' or dorld like '%Eph%'
  and completionDate > dateadd(hh, -1,getdate())
  and completionDate < getdate()
insert PIDprMetrics
select "PGE01",sum(pgeCpuTime),sum(systemCpuTime), sum(pgeElapsedTime),count(distinct dprId), dateadd(hh, -1,getdate()),
```

```
getdate()
from PIDprCompletion
 where dprld like '%PGE01%'
 and completionDate > dateadd(hh, -1,getdate())
  and completionDate < getdate()
```